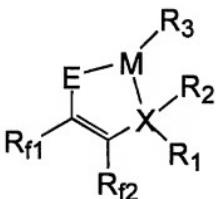


**AMENDMENTS TO THE CLAIMS**

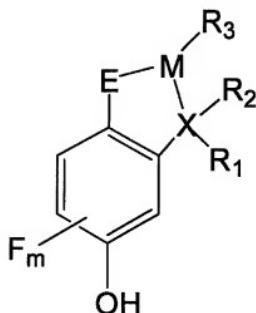
This listing of claims will replace all prior versions and listings of claims in the application:

**LISTING OF CLAIMS:**

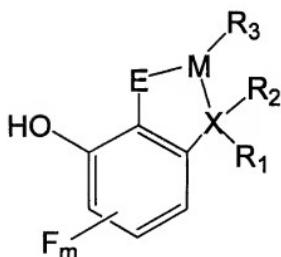
1. (currently amended): An olefin polymerization catalyst represented by general formula (1), (2), or (3):



(1)



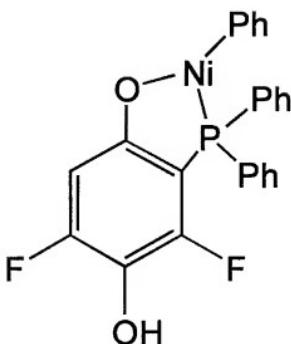
(2)



(3)

(wherein M is nickel, palladium, or platinum; E is oxygen or sulfur; X is phosphorus, arsenic, or antimony; R<sub>1</sub>, R<sub>2</sub>, and R<sub>3</sub> are each independently hydrogen or a hydrocarbon group having 1 to 20 carbon atoms; R<sub>1</sub> and R<sub>2</sub> are each independently a fluorine atom or a fluorohydrocarbon group having 1 to 20 carbon atoms; F is fluorine; and m is 1 to 3).

2. (original): The olefin polymerization catalyst according to claim 1, wherein M is nickel.
3. (currently amended): The olefin polymerization catalyst according to claim 1, wherein E is oxygen, and X is phosphorus.
4. (currently amended): The olefin polymerization catalyst according to claim 1, wherein R<sub>f1</sub> and R<sub>f2</sub> are each a fluorohydrocarbon group having 1 to 20 carbon atoms.
5. (original): The olefin polymerization catalyst according to claim 4, wherein R<sub>f1</sub> is a trifluoromethyl group, and R<sub>f2</sub> is a pentafluorophenyl group.
6. (currently amended): The olefin polymerization catalyst according to claim 1, wherein R<sub>1</sub>, R<sub>2</sub>, and R<sub>3</sub> are each a phenyl group.
7. (currently amended): The olefin polymerization catalyst according to claim 6, represented by general formula (4):



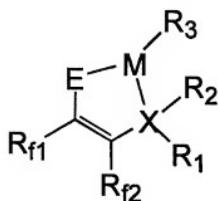
(4)

{wherein Ph represents a phenyl group}.

8 and 9. (canceled).

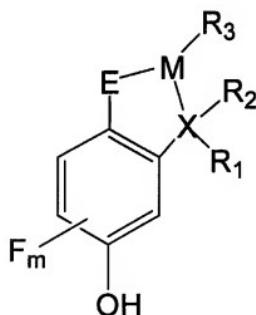
10. (currently amended): A method for producing the olefin polymerization catalyst according to claim 1.

11. (currently amended): A method for producing an the olefin polymer according to claim 8 by polymerizing an olefin in the presence of an olefin polymerization catalyst represented by general formula (1), (2), or (3):



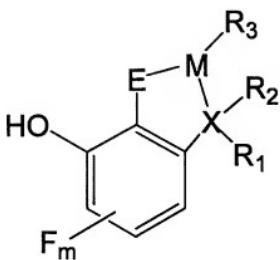
(1)

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(2)

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( 3 )

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wherein M is nickel, palladium, or platinum; E is oxygen or sulfur; X is phosphorus, arsenic, or antimony; R<sub>1</sub>, R<sub>2</sub>, and R<sub>3</sub> are each independently hydrogen or a hydrocarbon group having 1 to 20 carbon atoms; R<sub>f1</sub> and R<sub>f2</sub> are each independently a fluorine atom or a fluorohydrocarbon group having 1 to 20 carbon atoms; F is fluorine; and m is 1 to 3.